User Manual and medical device booklet

Videomatic VEO

EN

REINECKER

Reinecker Vision GmbH
Sandwiesenstraße 19 · 64665 Alsbach-Hähnlein
Tel. 0 62 57-93 11-0 Fax 0 62 57-25 61

REINECKER

Konformitätserklärung
Declaration of conformity

Wir erklären in alleiniger Verantwortung, dass das Produkt
We declare under our sole responsibility that the product

Videomatic VEO

auf das sich diese Erklärung bezieht, mit den folgenden Normen oder normativen Dokumenten übereinstimmt.
to which this declaration relates is in conformity with the following directives.

Es entspricht damit den Bestimmungen der folgenden Richtlinie:
It corresponds to the rules of the following directives:

Richtlinie 93/42/EWG
des Rates vom 14. Juni 1993 über Medizinprodukte
Klasse I nach Anhang VII

Council directive 93/42/EEC
of 14th June 1993 concerning medical devices
Class I / Annexe VII

Die CE– Kennzeichnung auf dem Gerät dokumentiert diese Übereinstimmung.
The CE mark on the system points out this accordance.

Alsbach-Hähnlein,

03.06.2013

Ort und Datum der Ausstellung
Place and date of issue

M. Reinecker Geschäftsführer
M. Reinecker General Manager

Name und Unterschrift des Befugten
Name and signature of the authorized person

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Important notes on the operation of Videomatic VEO

– Read these notes carefully before initial operation –

1. Notes on the electromagnetic compatibility (EMC)

The opto-electronic reading device is suited for use in all set-ups including domestic use (as it can be connected directly to a public mains supply that powers buildings for residential purposes).

The opto-electronic reading device is designed for use in the indicated electro-magnetic environment. The customer or user should ensure the use in the indicated environment.

The opto-electronic reading device operates on HF-energy exclusively designed for its own use. Therefore the emitted interference of high frequency disturbances is very low with minimal impact on other electronic devices in close proximity.

When used in conjunction with other electronic device the level of electronic disturbance cannot be guarenteed.

For this reason it should be ensured that the system is not placed directly beside or on top of another system.

If the set-up of the system in the proximity of medical, analogical measuring devices cannot be avoided, the operator of these devices has to be informed that it is necessary to observe the performance of the system to control the conventional use of the system in the chosen set-up.

Electronic devices are sensitive to any electric discharge and towards high-frequency electro-magnetic fields.

In order to avoid high-frequency disturbances the operator should maintain a minimum distance of one metre to portable and mobile HF-telecommunication devices and the Videomatic VEO.

User Manual, please read carefully!

Product description

This state-of-the-art electronic reading device magnifies the printed material that is placed under the camera, and displays it on the monitor. Text, pictures or objects can easily be moved under the camera using the xy-table to assist with reading. You can change the display format according to your particular eye condition.

The frame rate is 60Hz with Full-HD resolution (1920 x 1080p) ensuring a clear picture even when reading at speed.

Purpose

This reading system is designed to assist people with conditions such as macular degeneration as well as other visual impairments.

Product life

This device has an approximate seven year product life from the date of production, provided that the recommended maintenance measures are carried out.

Safety advice

This equipment is designed for use in a normal indoor environment, and it should be protected from excessively high and low temperatures, and from moisture. Do not obstruct ventilation slots.

!Note!: Make sure that no liquids get inside the unit.

Setting up your Videomatic VEO

Your Videomatic system will be unpacked and set up by the supplier's representative. If you have not purchased a Videomatic stand that fits to the product you must provide a solid surface for the system with sufficient surface area.

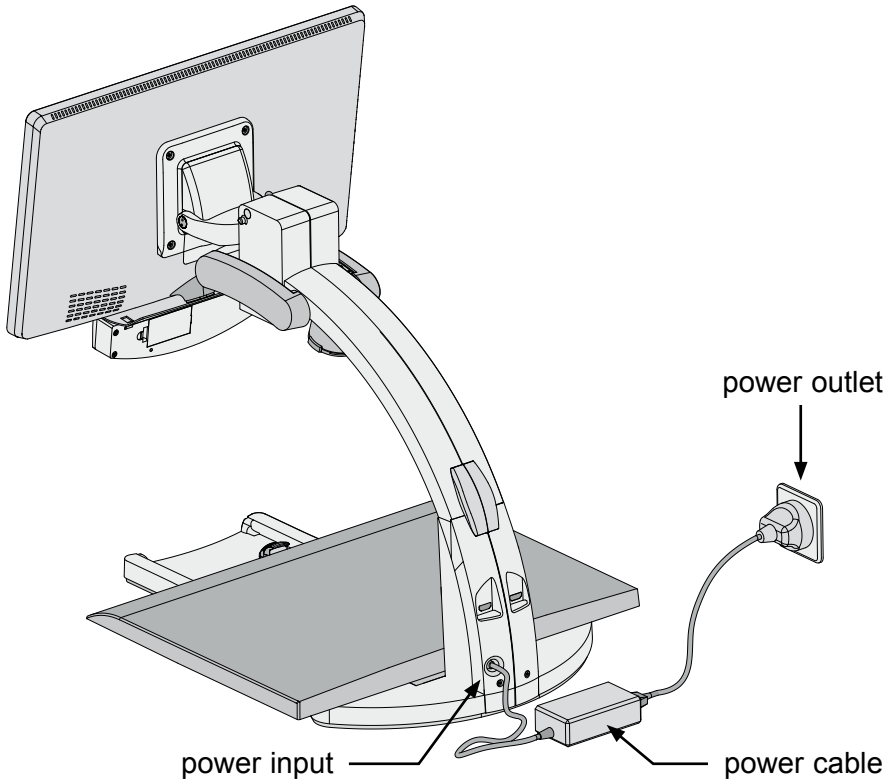
!Note!: DO NOT remove the CCTV unit by holding it by the xy table.

Connection and switching on

The Videomatic camera system must be connected to a mains wall socket by using the power cable included in the delivery (12V DC).

Once the device is plugged in, it is ready to use.

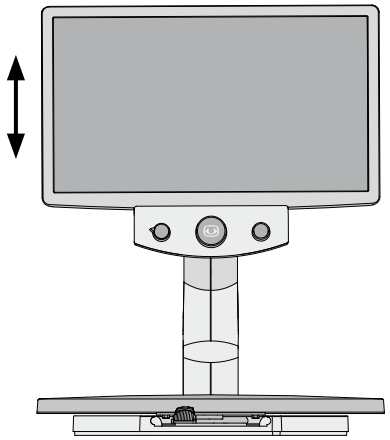
!Note!: The delivered power cable is to be used exclusively in connection with the Videomatic VEO.



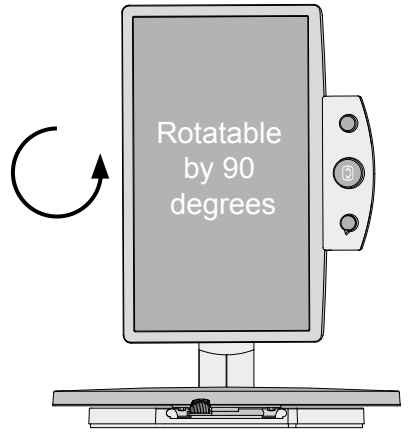
Alignment of monitor

Due to the monitor's technology contrast and brightness change depending on the angle of view.

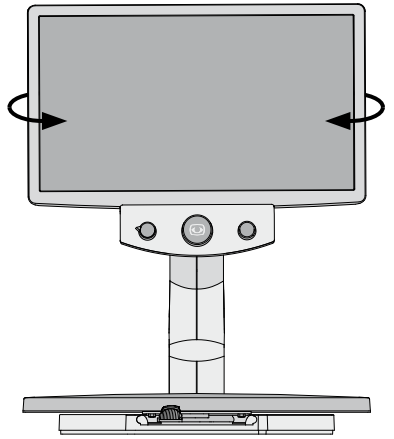
The highly flexible four-dimensional monitor arm enables the user to adjust the monitors height and angle according to their seated position (see below).



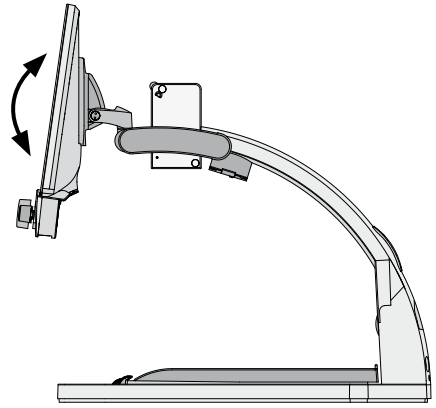
- The monitor can be moved vertically up and down.



- The monitor can be rotated anti-clockwise by 90 degrees in order to make column reading easier. The image will adapt automatically to the monitors position.



- The monitor can be rotated to either the left or to the right.



- The monitor can be tilted up or down.

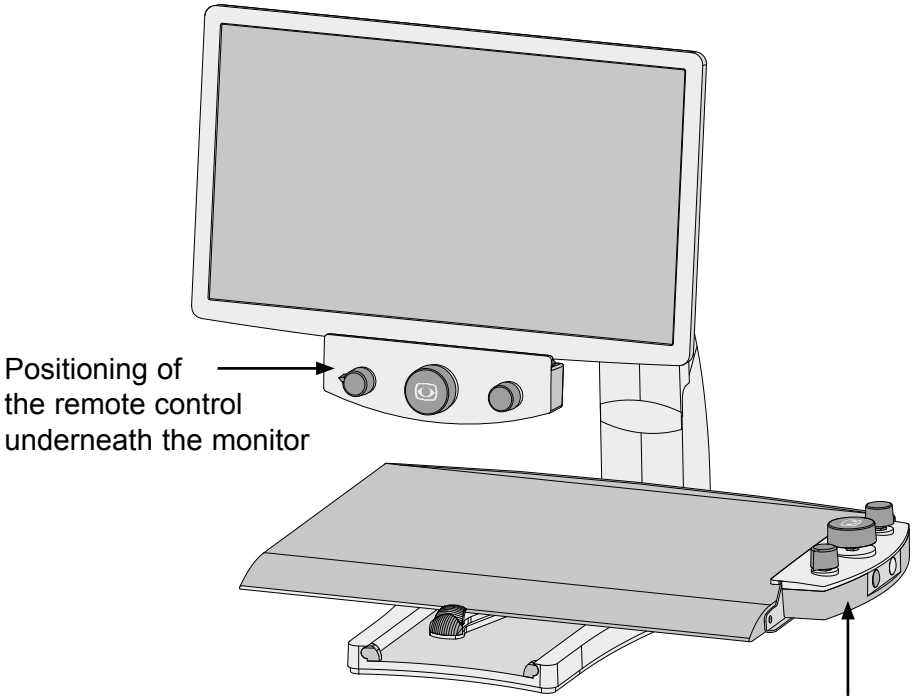
Ergonomic notice

In order to prevent reflections on the screen, when adjusting the Videomatic VEO you should avoid direct light falling on the device. Always position the reading system monitor against or in parallel with the light source.

Positioning of the remote control unit

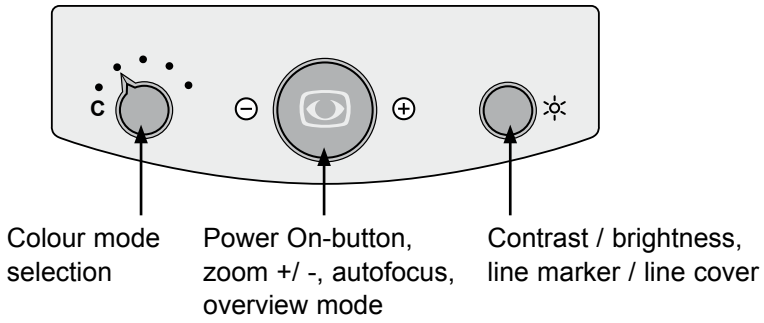
There are two options (one or three button) available for the remote control for Videomatic VEO are available. Depending on which remote control you were purchasing, different functions will be supported.

The remote control unit may be attached to the VEO reading system on the right side of the xy-table or underneath the monitor. In addition the remote control may also be hold in the user's hand or e.g. placed on the table. Accordingly the user has the opportunity to find the best way of operating the Videomatic VEO based on his personal ergonomic demands.

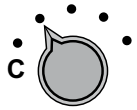


Description of the 3-buttons remote control unit

Frontal view:



Left button:



- **Colour mode selection**

  By turning the colour mode selection-button from the left to the right the following colour modes can be selected:

Position 1.	Full colour display
Position 2.	white font, black background
Position 3.	black font, white background
Position 4.	green font, black background
Position 5.	yellow font, black background
Position 6.	yellow font, blue background

The chosen colour mode appears temporarily on the lower side of the screen (when activated).

!Note!: The above listed colour modes represent the factory settings. Using the menu these colour modes can be adjusted individually.

Central („zoom“) button:

- **Power ON-button**

  By pushing this button the reading system will be turned on.

- **Zoom + / -**

  By turning the button to the left and to the right the magnifi cation will continuously change from minimum to maximum.

- **Autofocus (AF)**

  By quickly pressing and releasing the central (“zoom”) button you can activate/deactivate the automatic focus. By having the autofocus activated the camera adjusts the picture sharpness automatically.

- **Overview mode**

  When you are working within a higher magnification level and want to find out which part of the page you have reached this function helps you to get the overview.

  Press the central („zoom“) button pressed for approximately 2 seconds until the overview mode is activated. The image on the screen will minimise and you will see an overview of the whole document/image/printed text. A faded cross will appear and indicate the area that is currently being magnified. Once the central button is released it will return back to the reading mode and selected magnification level.

Right button:

- **Contrast / Brightness**

  This button is equipped with a pull-out function. With the button in the pushed-in position, the combined adjustment of contrast and brightness is activated. Low contrast, low brightness (turned left position), high contrast, high brightness (turned right position).

- **Line marker / shadowing**

  By pulling out the control button will activate the line marking and shadowing functions.

  Turn this button to choose the area on the screen to be covered by lines and shadowing.

  To deactivate the line marker/shadowing function, push the button back in again.

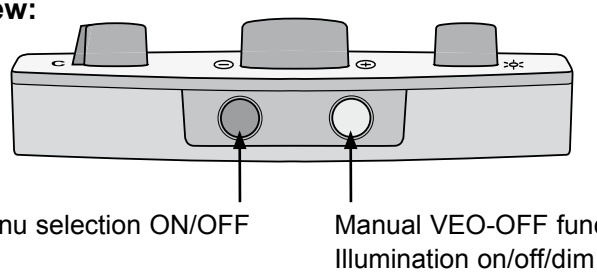
Turning the unit ON or OFF

Videomatic VEO is equipped with an automatic ON/OFF-function.

When the VEO is connected correctly to the power outlet, it can be turned on by pushing the central („Zoom + / -“) button . Lights will be activated automatically when the unit powers up.

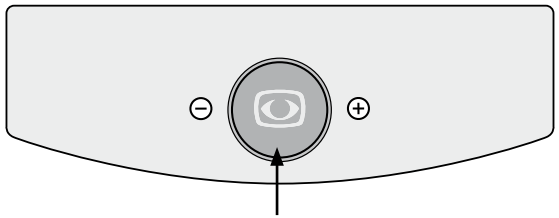
!Note!: If the xy table is not automatically lit up please check that the mains power cable has been securely connected to the power brick. If it is correctly connected then manually check the lighting settings on the remote control as lighting may have been manually deactivated (see illustration below).

Bottom-up view:



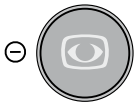
Description of the 1-button remote control unit

Front view:



ON-button, zoom +/ -, colour selection, overview mode

Central button „Zoom + / -“:



- **Power ON-button**

  By pushing this button the reading system will be turned on.

- **Zoom + / -**

  By turning this button to the left and to the right the magnification will continuously change from minimum to maximum.

- **Colour mode**

  By pushing this button the following colour modes can be selected:

  Position 1. Full colour display
  Position 2. white font, black background
  Position 3. black font, white background
  Position 4. green font, black background
  Position 5. yellow font, black background
  Position 6. yellow font, blue background

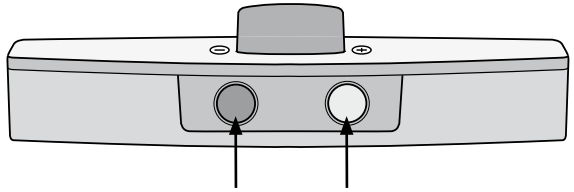
The chosen colour mode appears temporarily on the lower side of the screen (when activated).

!Note!: The above listed colour modes represent the factory settings. Using the menu these colour modes can be adjusted to create custom colours.

- **Overview mode**

  (Same procedure as described for the 3-button remote control, see page 12)

Bottom-up view:



Menu selection ON/OFF

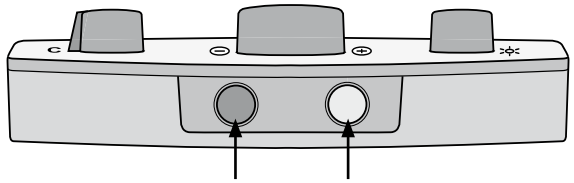
Manual VEO-OFF function, Illumination on/off/dim mode

Automatical switch-off

After a pre-selected amount of time the VEO will automatically switch itself OFF if the remote control of the unit has been inactive for a period of time.

By pushing both the black and yellow buttons on the bottom side of the remote control simultaneously it will activate the function to change the automatic switch OFF time frame – this can be adjusted from 60 min / 30 min / 15 min / auto OFF (needs to be turned OFF manually).

Release the buttons when the choosen time setting appears. The time setting will then be selected and stored.



Black button Yellow button

Time setting options:

- automatic switch-off deactivated
- automatic switch-off after 15 min.
- automatic switch-off after 30 min.
- automatic switch-off after 60 min.

!Note!: Once switched OFF the energy consumption of the VEO is less than 0,5 watt.

Manual switch-off

Keep the yellow button pressed for 5 seconds until the device turns OFF.

Lighting ON/dim/OFF

By pushing the yellow button on the bottom side of the remote control the lighting can be

- turned ON
- dimmed
- turned OFF

When turning OFF the VEO the selected level of illumination will be saved.

Menu selection

Keep the black button (underneath the remote control) pressed for approximately 3 seconds until the main menu appears on the screen.

Main Menu	
Brightness	**+50**
Contrast	**+50**
Color Saturation	**- 30**
Ruler / Mask	**OFF**
Ruler / Mask Settings...	
AF Mode	**Continuous/Zoom**
Demo Mode...	**OFF**
Recall User Settings...	
Advanced Settings...	
Exit	

Turn the central (zoom) button to the left / right to navigate up and down through the menu or to change the value or setting. By pushing the zoom button you can select a menu option or approve a setting.

Exit the menu

Navigate to „esc“ by turning the zoom button and pressing it to confirm.
Or press the black button at the bottom side of the remote control in order to turn the menu directly OFF.

Exit the menu level

Navigate to „esc“ by turning the zoom button and press the zoom button for confirmation.

Explanation of the menu content

The image shows in detail how the menu is structured.

Main Menu	← Menu level 1
Advanced Settings	← Menu level 2
Special Settings	← Menu level 3
Customize Buttons	← Menu level 4
Function	**adjustment range** | explication

Menu settings

Main Menu	
Brightness	**adjustment range from -50 to +50**
Contrast	**adjustment range from -50 to +50**
Color Saturation	**adjustment range from -50 to +50**
Ruler / Mask	**OFF** | deactivate line marker and shadowing **Ruler** | activate line marker **Mask** | activate shadowing

Main Menu	
Ruler / Mask Settings	
Ruler / Mask	**OFF** | deactivate line marker and shadowing **Ruler** | activate line marker **Mask** | activate shadowing
Ruler Position	**0 to 100** | adjust line marker position
Mask Position	**0 to 100** | adjust shadowing
Ruler Mode	**Horizontal** | anlign line marker horizontally **Vertical** | anlign line marker vertically
Mask Mode	**Left/Right** | Shadowing left/right; shadowing up to 50% **Top/Bottom** | Shadowing top/bottom; shadowing up to 50% **Left/Right FS** | Shadowing left/right; shadowing up to 90% **Top/Bottom FS** | Shadowing top/bottom; shadowing up to 90% **Full-Screen** | Shadowing covers whole screen
Mask Transparency	**50%** | **25%** | **0%**

Main Menu	
Ruler / Mask Settings	
Ruler Color	
Red	adjustment range from 0 to 31
Green	adjustment range from 0 to 31
Blue	adjustment range from 0 to 31

Main Menu	
AF Mode	Continuous | Semi-Automatic | Semi-Autom. +Zoom | Continuous / Zoom
Demo Mode	OFF | no function
Recall User Settings	Return to customer selected settings

Overview:

Advanced Settings	
Color Combination Setup	
Anti Reflection Mode	Auto (5)
Monitor Brightness	100
Language	English
Perform White Balance	
White Balance Mode	Auto
Sharpness Settings	
OSD Messages	OFF
Special Settings	
Return	

Main Menu	
Advanced Settings	
Color Combination Setup	
Color Combination 1-6	
Mode	Disabled | Full Color | Grayscale | False Color
Foreground	Black | Red | Green | Blue | Yellow | Magenta | Cyan | White | User 1 | User 2
Background	Black | Red | Green | Blue | Yellow | Magenta | Cyan | White | User 1 | User 2
Swap Fore-/ Background	invert foreground and background colours

Main Menu	
Advanced Settings	
Color Combination Setup	
User colors	
User color 1 - Red	adjustment range from 0 to 31
User color 1 - Green	adjustment range from 0 to 31
User color 1 - Blue	adjustment range from 0 to 31
User color 2 - Red	adjustment range from 0 to 31
User color 2 - Green	adjustment range from 0 to 31
User color 2 - Blue	adjustment range from 0 to 31

Main Menu	
Advanced Settings	
Anti Reflection Mode	OFF | ON | Auto (0-9) | adjust default value
Monitor Brightness	adjustment range from 37 to 100
Language	English | Deutsch
Perform White Balance	execute white balance
White Balance Mode	Auto | One-Push

Main Menu	
Advanced Settings	
Sharpness Settings	
Real Color Sharpness	adjustment range from 0 to 24
False Color Sharpness	adjustment range from 0 to 24

Main Menu	
Advanced Settings	
OSD Messages	**ON** | **OFF**

Overview:	Special Settings	
	Zoom Extension	**ON**
	Max. Digital Zoom	**3.5x**
	Customize Buttons	
	Store User Settings	
	Recall User Settings	
	Reset to Factory Settings	
	Expert Settings	
	Return	

Main Menu	
Advanced Settings	
Special Settings	
Zoom Extension	**ON** | **OFF**
Max. Digital Zoom	**OFF** | adjustment range from 1,5x to 15x

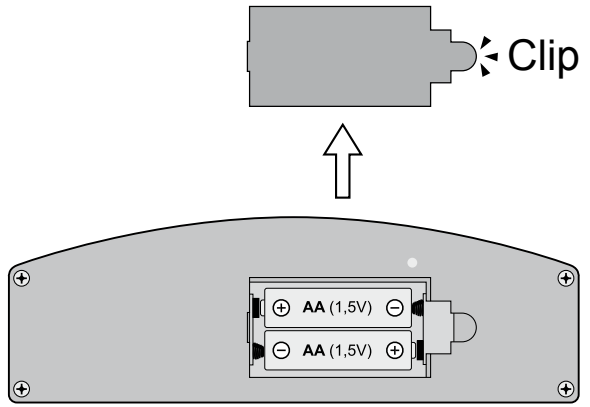
Main Menu	
Advanced Settings	
Special Settings	
Customize Buttons	
Zoom Push 1K	**Disabled** | **Auto-Focus** | **False Color**
Zoom Push 3K	**Disabled** | **Auto-Focus** | **False Color**
Zoom Hold 1K	**Disabled** | **Overview**
Zoom Hold 3K	**Disabled** | **Overview**
Bright. Pull	**Disabled** | **Ruler ON/OFF** By pulling the button brightness/contrast, the line marker and shadowing functions will be activated.

Main Menu	
Advanced Settings	
Special Settings	
Store User Settings	Confirm selection to the user setting to save
Recall User Settings	Confirm selection to the user setting restore
Reset to Factory Settings	Confirm to the factory setting restore
Expert Settings	Access - only by authorized service

Change batteries in remote control

The remote control operates on 2 x AA-batteries (1,5V).

- Detach the cover on the flipside of the remote control.
- Put in the batteries and make sure that they are the right way round (polarity is correctly matched).
- Replace the cover onto the remote control using marginal pressure.

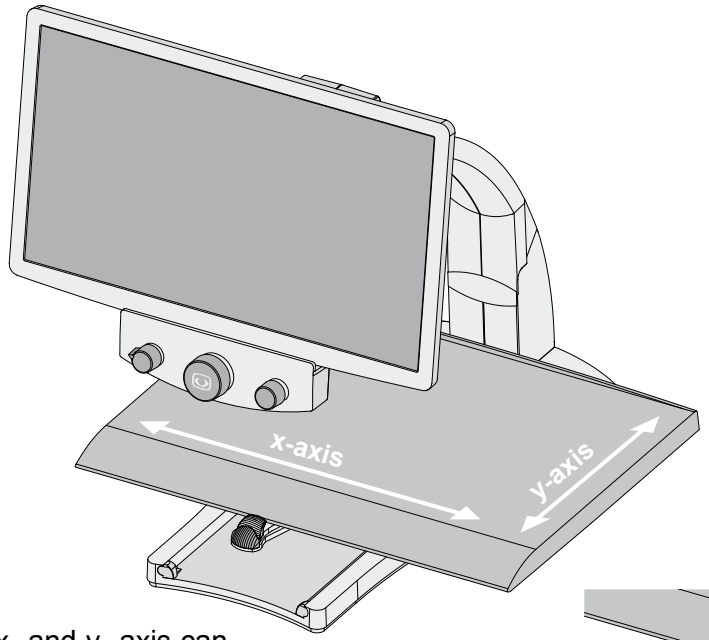


Disposal of batteries

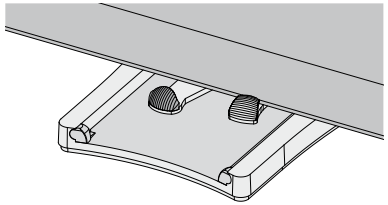
!Note!: Dispose of batteries according to the national guidelines!

Alignment of xy-table

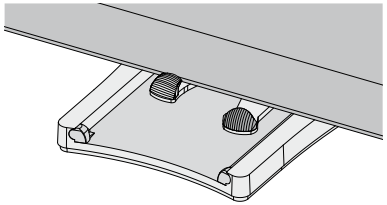
The xy-table has two independent friction brakes for the x- and y-axis. The friction can be continuously adjusted from minimum to maximum. The yellow friction brake is used for the x-axis and the black brake for the y-axis.



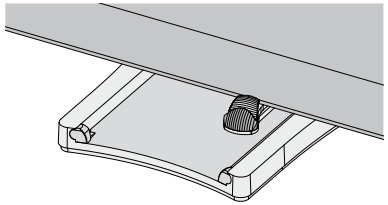
x- and y- axis can
be moved into all directions



x- axis is locked, y- axis is flexible



x- axis is flexible, y- axis is locked



x- axis is locked, y- axis is locked

If problems arise

If your Videomatic does not appear to be working, first check that the unit is connected to the mains power supply . If the unit appears to be working but you believe there is a fault, switch OFF the unit and disconnect it from the plug socket. Call your local dealer for advice.

Security checks

Servicing must only be carried out by technicians of Reinecker Vision GmbH or by technicians authorised by the manufacturer.

The statements made in §6 ”MP-Betreiber-Verordnung” regarding deadlines – recommend that servcing is carried out at least every two years at the latest. Statements of the safety condition of a device will be made whilst servicing the device according to the standard VDE 0751.

Environmentally friendly disposal according to EC directive 2002/96/EG

The appliance contains electronic components. In order to avoid risks or dangers for the environment through non-professional disposal, the disposal of the product, including all accessories, has to correspond to the valid directives.

Special advice for transport and storage

For reasons of safety, the unit must only be transported and stored in the original packing. The unit must be stored in a dry area in the original packing.

The following conditions for storage and transport should be adhered to:

- Air pressure 700 - 1000 hPa
- Temperature range +5° to + 50°
- Relative air humidity 30% to 80%

Power cable

Please use only the original power cable, Article number **00606379** supplied by Reinecker Vision GmbH or its local representative.

!Warning!:
Using other accessories than the ones specified may lead to increased energy emissions or device may not function correctly.

Cleaning of the system

- Videomatic VEO has to be disconnected from the power supply before cleaning.
- The monitor and the system has to cleaned with glass cleaner.
- Interior of device must NOT come in contact with liquids.

Product Identity

Type: Videomatic VEO

Serial-Number:

Manufacturer: Reinecker Vision GmbH

Supplier:

Year of purchase:

* Operator: 1. _____ 4. _____
2. _____ 5. _____
3. _____ 6. _____

Final examination:	
Date of despatch:	
Power supply:	100 - 240VAC 50/60 Hz
Power consumption:	max. 80 Watt
Installed by:	
**** First safety check:**	

* Classification: Attention: When changing of operator, the new operator shall be named in the corresponding column.
** If re-using the unit, a new safety check is required!

Warranty Information

(Valid only within the European Union)

1. Reinecker Vision GmbH grants a warranty of 24 months against defects in manufacture counted from date of invoice ex Reinecker Vision GmbH.
2. All parts that have been replaced when repairing the unit will automati cally become property of Reinecker Vision GmbH.
3. Damage caused by improper use or by non-compliance with the operating instructions will result in the invalidation of the warranty.
4. Interventions from persons other than Reinecker Vision GmbH authorised specialists may lead to invalidity of warranty.
5. Not included in this warranty are lamps, batteries, mirror, glass, bulbs and other parts subject to wear and tear.
6. If a warranty claim is necessary, the system has to be returned to the manufacturer in Alsbach-Hähnlein or to your authorised dealer. The manufacturer does not carry the cost for transport, packaging and insurance.

   phone number: +49 (0) 625793110

   View our General Terms and Conditions.

Your authorized distributor:

Notices

International Contact
Reinecker Vision GmbH

sales department, customer relations:
Sandwiesenstraße 19
DE-64665 Alsbach-Hähnlein

customer service:
Am Eichwald 14
DE-64665 Alsbach-Hähnlein

Tel.: +49 62 57-93 11-0
Fax: +49 62 57-25 61

E-Mail: info@reineckervision.com
www.reineckervision.com

In case service is necessary, please contact your authorized distributor.

Zentrale Deutschland und Export
Reinecker Vision GmbH

Vertrieb, Kundenberatung:
Sandwiesenstraße 19
64665 Alsbach-Hähnlein

Kundendienst:
64665 Alsbach-Hähnlein
Am Eichwald 14

Tel.: 0 18 05-54 56 65*
Fax: 0 62 57-25 61

E-Mail: info@reineckervision.de
www.reineckervision.de

*Festnetzpreis 14 ct/min, Mobilfunkpreis max. 42 ct/min

Bitte wenden Sie sich bei Fragen oder einem Servicefall direkt an unser Hauptwerk in Alsbach-Hähnlein oder an eine unserer Niederlassungen.

Bei im Ausland erworbenen Produkten kontaktieren Sie im Servicefall bitte Ihren dort ansässigen Händler.

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